US Army Corps of Engineers

Hurricane Exercise Debris Model

Landfall Expected In About **4** Hours

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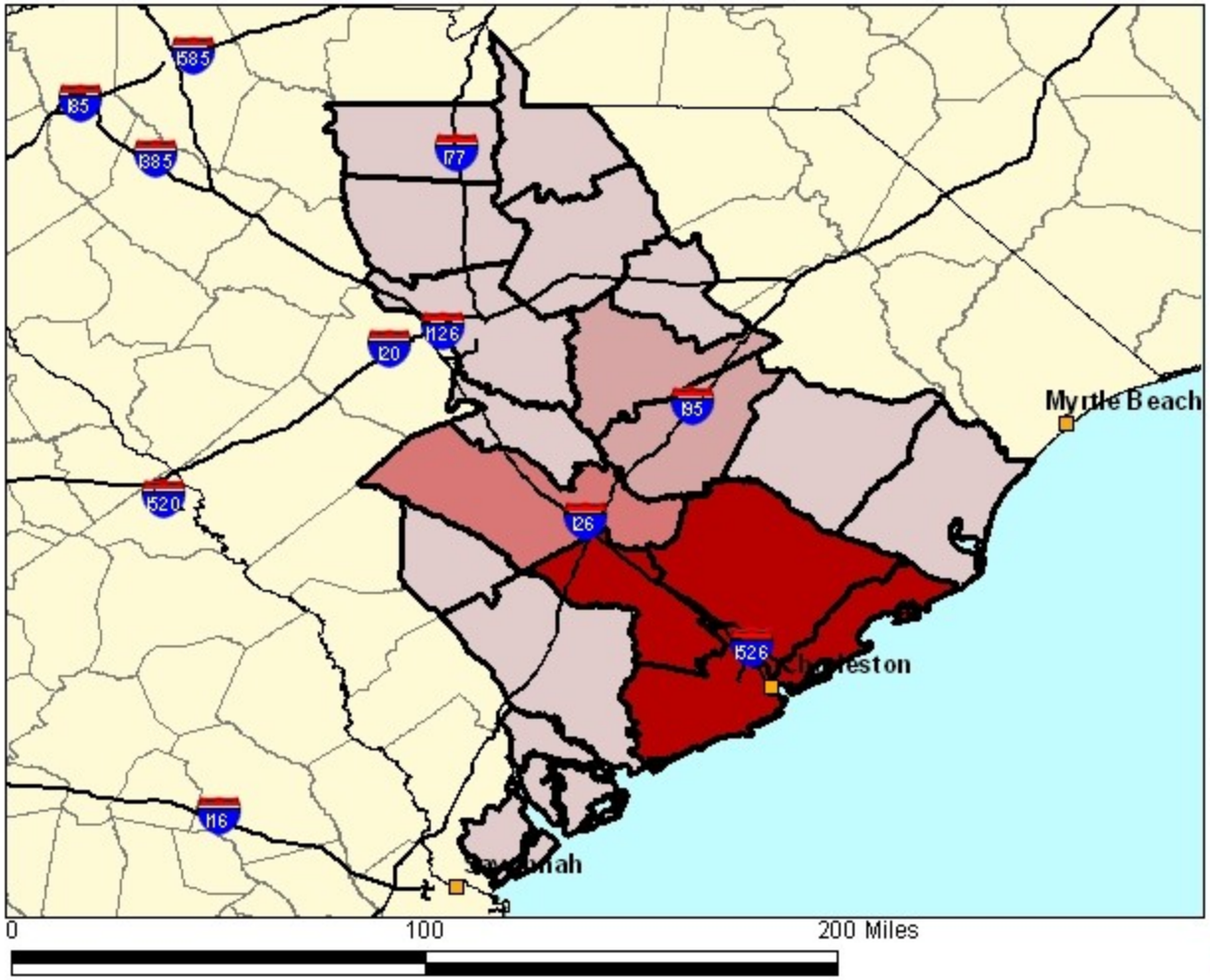

Post Landfall Debris Model Results

South Carolina - 17,058,000 Yards

Model results per county on following page

This model is based on a Category 3 storm making landfall near Charleston, SC.

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 3 storm making landfall near Charleston, SC. These projections are based on information from the NHC (1530 EDT 06/05/2007) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Debris Model	
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US Army Corps of Engineers

Hurricane Exercise Debris Model

Landfall Expected In About **4** Hours

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State	Yards per State	County	Yards per County
South Carolina		Bamberg	< 1,000
		Beaufort	51,000
		Berkeley	3,882,000
		Calhoun	21,000
		Charleston	9,617,000
		Chester	5,000
		Clarendon	199,000
		Colleton	68,000
		Dorchester	2,470,000
		Fairfield	10,000
		Georgetown	14,000
		Kershaw	40,000
		Lancaster	< 1,000
		Lee	2,000
		Orangeburg	351,000
		Richland	93,000
		Sumter	207,000
		Williamsburg	28,000
South Carolina	17,058,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

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Hurricane Exercise Debris Model

Generated By:
Siemsen, LRL 1600 EDT 06/05/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Population Model

Landfall Expected In About **4** Hours

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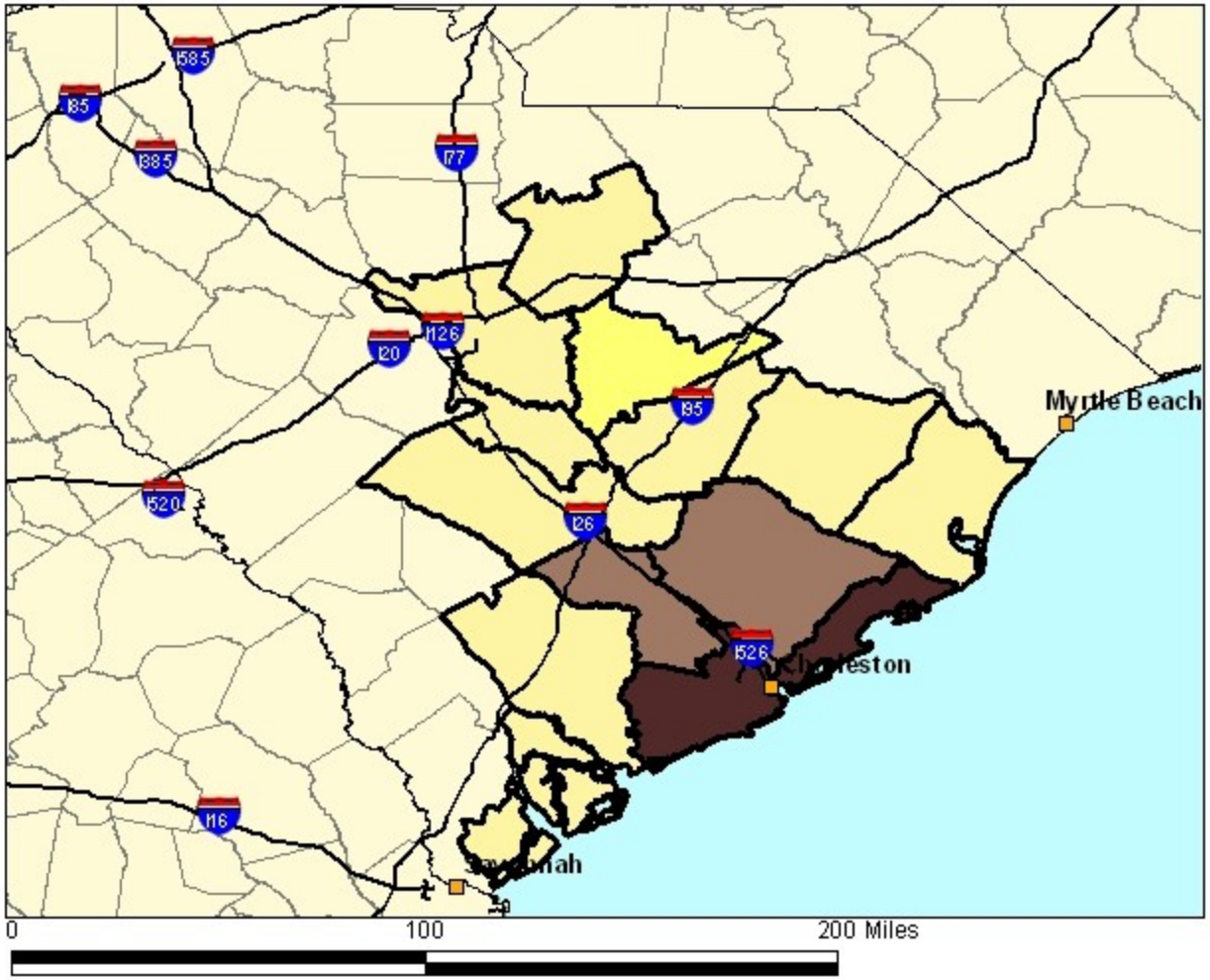

Post Landfall Population Model Results

South Carolina - 743,000

Model results per county on following page

This model is based on a Category 3 storm making landfall near Charleston, SC.

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 3 storm making landfall near Charleston, SC. These projections are based on information from the NHC (1530 EDT 06/05/2007) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2005 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Population Model	
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Sources: HURREVAC LRL-DEBRIS	Page 3 of 12

US Army Corps of Engineers

Hurricane Exercise Population Model

Landfall Expected In About **4** Hours

For Official Use Only!

State	Population per State	County	Population per County
South Carolina		Beaufort	2,000
		Berkeley	152,000
		Calhoun	5,000
		Charleston	331,000
		Clarendon	25,000
		Coleton	9,000
		Dorchester	110,000
		Georgetown	< 1,000
		Kershaw	3,000
		Orangeburg	22,000
		Richland	13,000
		Sumter	67,000
		Williamsburg	4,000
South Carolina	743,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2005 values.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

Hurricane Exercise Population Model

Generated By:
Siemsen, LRL 1600 EDT 06/05/2007

Sources:
HURREVAC
LRL-DEBRIS

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Hurricane Exercise Households Model

Landfall Expected In About **4** Hours

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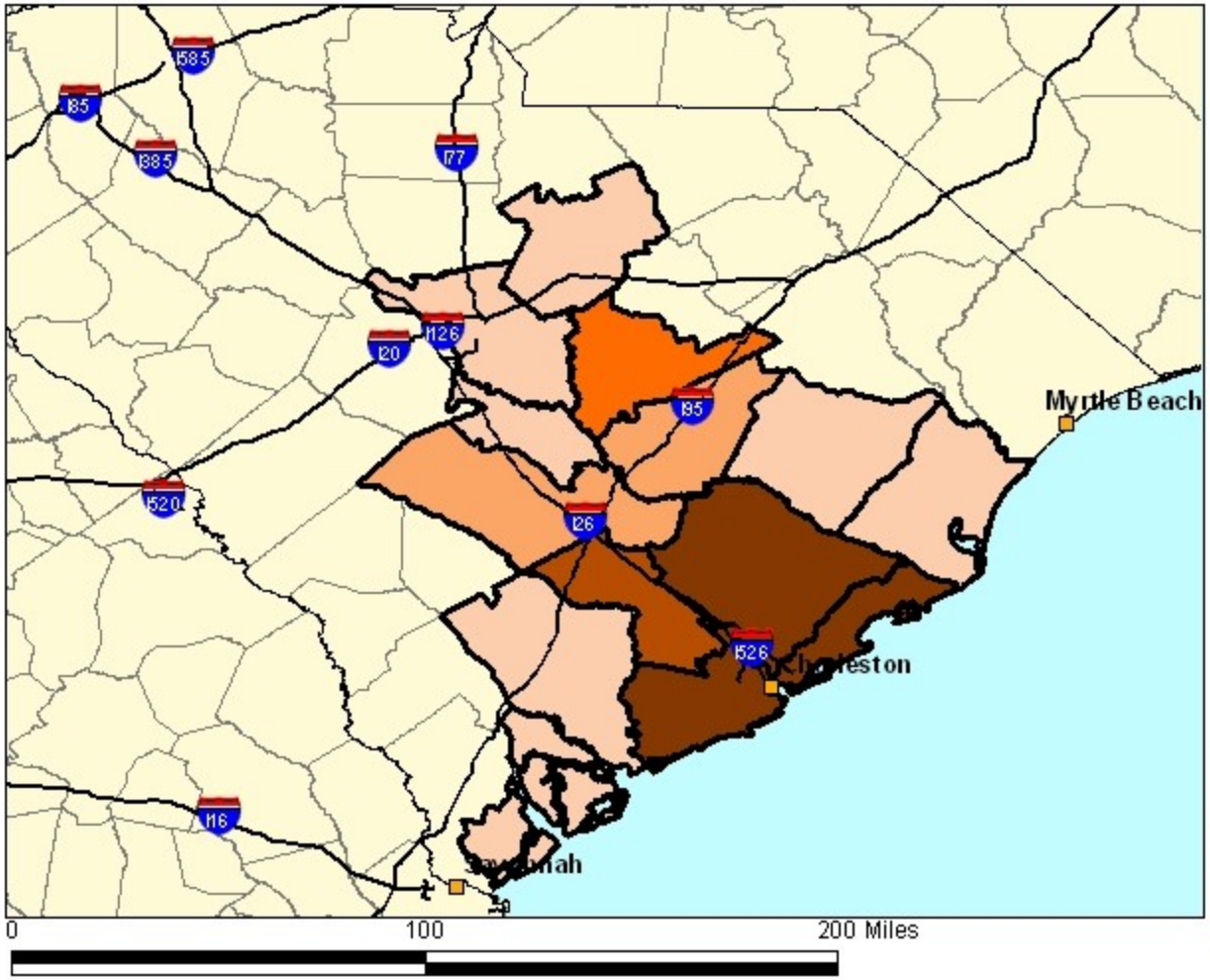

Post Landfall Households Model Results

South Carolina - 283,000

Model results per county on following page

This model is based on a Category 3 storm making landfall near Charleston, SC.

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 3 storm making landfall near Charleston, SC. These projections are based on information from the NHC (1530 EDT 06/05/2007) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2005 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Households Model	
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US Army Corps of Engineers

Hurricane Exercise Households Model

Landfall Expected In About **4** Hours

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State	Households per State	County	Households per County
South Carolina		Beaufort	< 1,000
		Berkeley	54,000
		Calhoun	2,000
		Charleston	132,000
		Clarendon	10,000
		Coleton	4,000
		Dorchester	40,000
		Georgetown	< 1,000
		Kershaw	2,000
		Orangeburg	9,000
		Richland	4,000
		Sumter	24,000
		Williamsburg	2,000
South Carolina	283,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2005 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Households Model

Generated By:
Siemsen, LRL 1600 EDT 06/05/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Commodities Model

Landfall Expected In About **4** Hours

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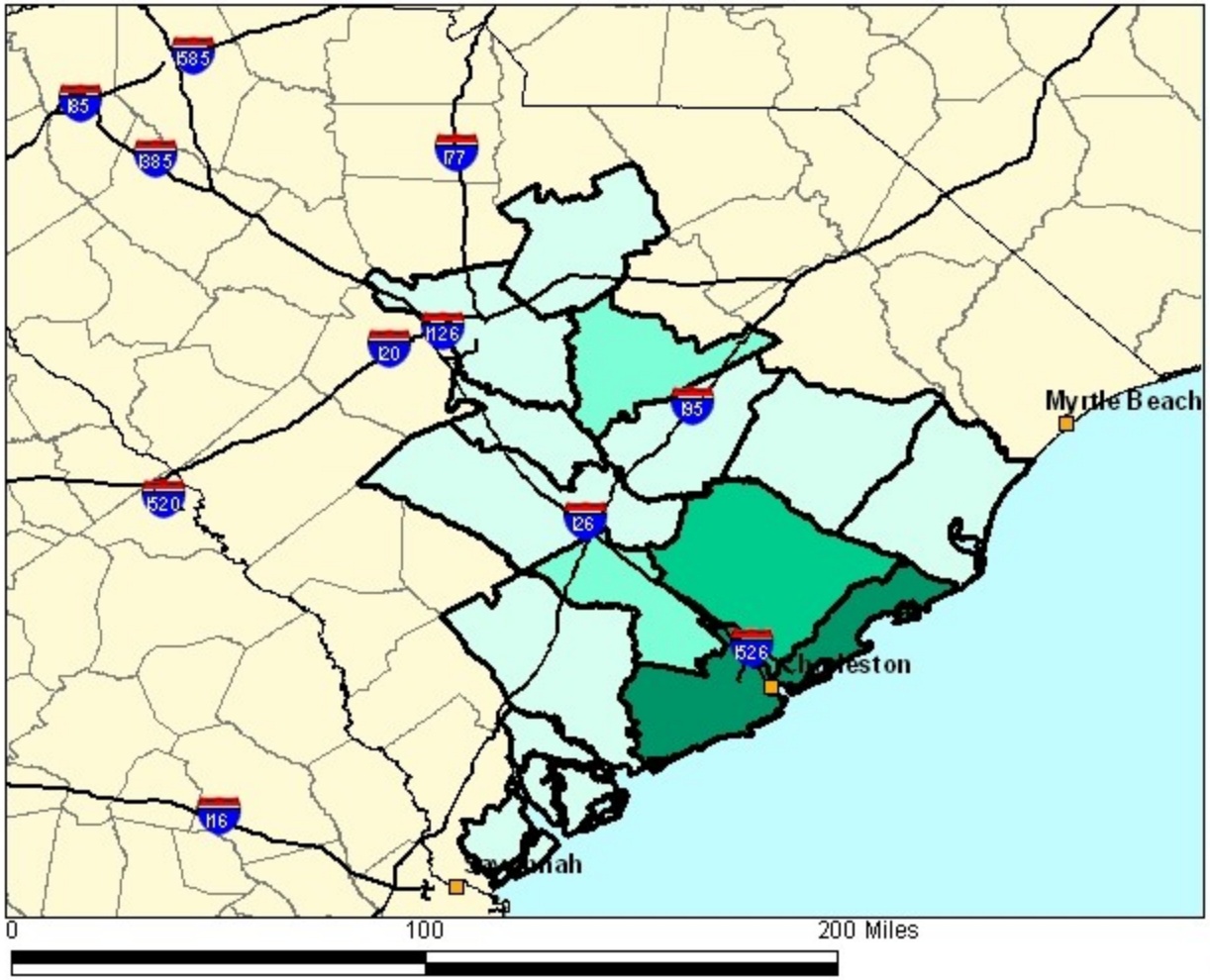

Post Landfall Ice/Water Model Results

Day One / Day Two / Day Three
SC – 17/34/67 Truckloads

Model results per county on following page

This model is based on a Category 3 storm making landfall near Charleston, SC.

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 3 storm making landfall near Charleston, SC. These projections are based on information from the NHC ***(1530 EDT 06/05/2007)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements (8 pounds of ice per person per day) and SME input. The graphic represents single day needs with full distribution system in place and operating.
Details about this model may be obtained at **https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

Hurricane Exercise Commodities Model	
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Sources: HURREVAC LRL-DEBRIS	Page 7 of 12

US Army Corps of Engineers

Hurricane Exercise Commodities Model

Landfall Expected In About **4** Hours

For Official Use Only!

State	Truckloads per State	County	Truckloads per County
South Carolina		Beaufort	1
		Berkeley	13
		Calhoun	1
		Charleston	27
		Clarendon	2
		Coleton	1
		Dorchester	9
		Georgetown	1
		Kershaw	1
		Orangeburg	2
		Richland	2
		Sumter	6
		Williamsburg	1
South Carolina	67		

The amount of commodities forecasted is based on Mission Guide Book requirements (8 pounds of ice per person per day) and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system. The assumption in this scenario is that 40% of the resident population affected by the hurricane will have power outage in this area and cause a need for ice and water.

Details about this model may be obtained at **https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

Hurricane Exercise Commodities Model

Generated By:
Siemsen, LRL 1600 EDT 06/05/2007

Sources:
HURREVAC
LRL-DEBRIS

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Hurricane Exercise Temporary Housing Model

Landfall Expected In About **4** Hours

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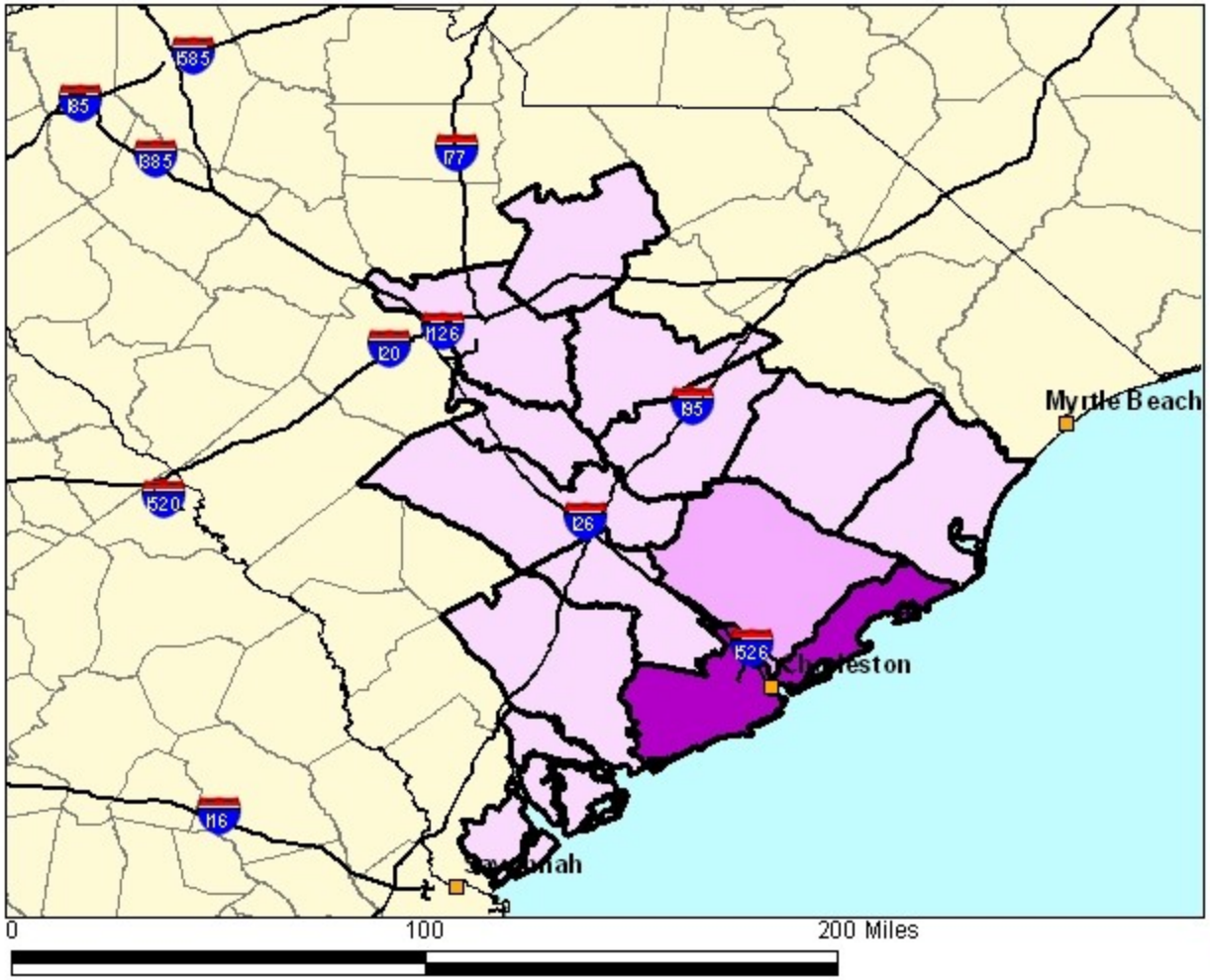

Post Landfall Temporary Housing Model Results

South Carolina - 11,600

Model results per county on following page

This model is based on a Category 3 storm making landfall near Charleston, SC.

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 3 storm making landfall near Charleston, SC. These projections are based on information from the NHC (1530 EDT 06/05/2007) forecast. Temporary housing is based on 1% in CAT 1, 3% in CAT 2 and 5% in CAT 3.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Housing Model	
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US Army Corps of Engineers

Hurricane Exercise Temporary Housing Model

Landfall Expected In About **4** Hours

For Official Use Only!

State	per State	County	per County
South Carolina		Beaufort	< 100
		Berkeley	2,500
		Calhoun	< 100
		Charleston	6,500
		Clarendon	200
		Colleton	< 100
		Dorchester	1,800
		Georgetown	< 100
		Kershaw	< 100
		Orangeburg	300
		Richland	< 100
		Sumter	300
		Williamsburg	< 100
South Carolina	11,600		

THIS IS AN EXPERIMENTAL MODEL!!

Temporary housing is based on 1% in CAT 1, 3% in CAT 2 and 5% in CAT 3.

Details about this model may be obtained at https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

Hurricane Exercise Housing Model

Generated By:
Siemsen, LRL 1600 EDT 06/05/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Temporary Roofing Model

Landfall Expected In About **4** Hours

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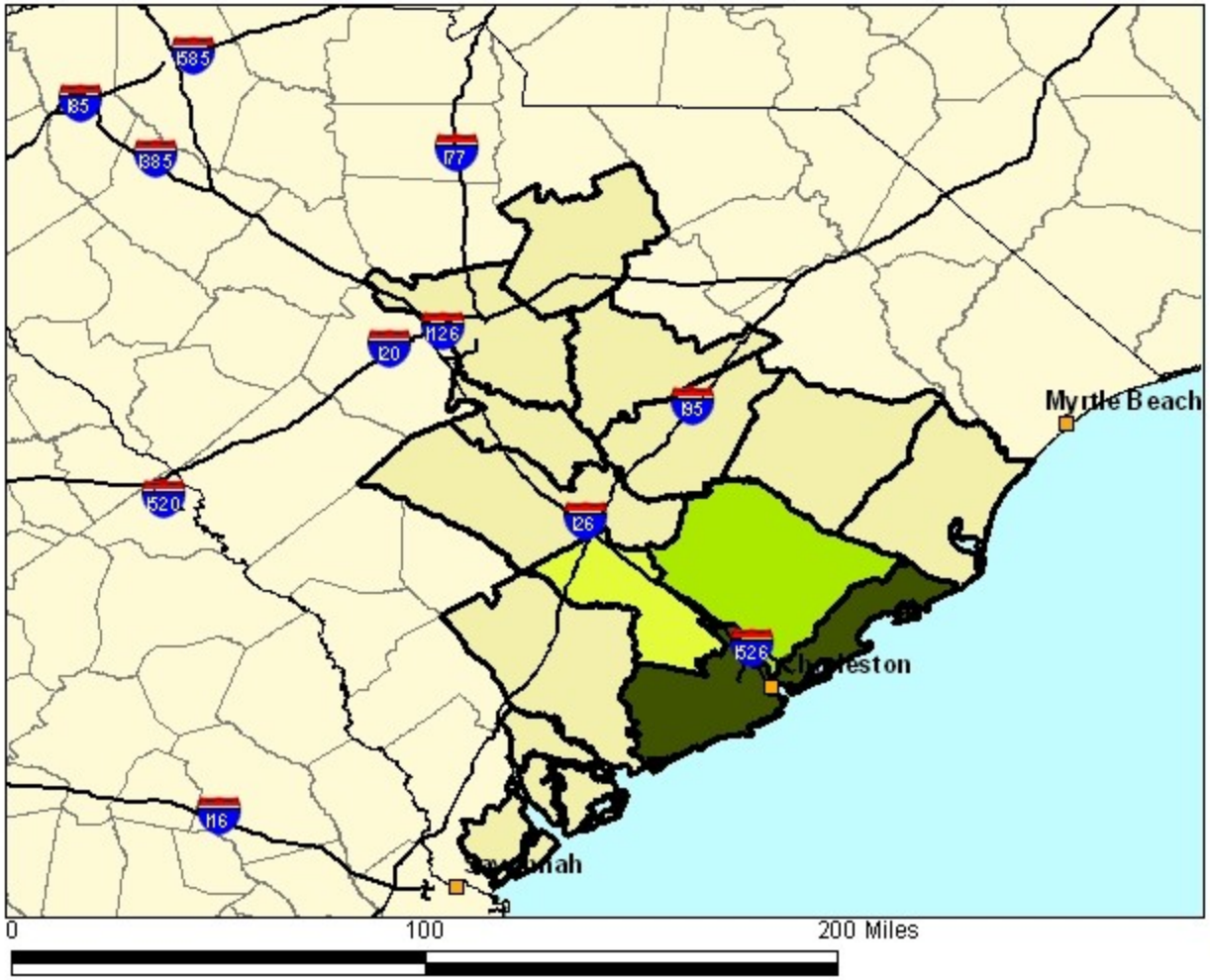

Post Landfall Temporary Roofing Model Results

South Carolina - 23,000

Model results per county on following page

This model is based on a Category 3 storm making landfall near Charleston, SC.

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 3 storm making landfall near Charleston, SC. These projections are based on information from the NHC (1530 EDT 06/05/2007) forecast. Temporary roofing is based on 2% in CAT 1, 6% in CAT 2 and 10% in CAT 3.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Roofing Model	
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Sources: HURREVAC LRL-DEBRIS	Page 11 of 12

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Hurricane Exercise Temporary Roofing Model

Landfall Expected In About **4** Hours

For Official Use Only!

State	House Units per State	County	House Units per County
South Carolina		Beaufort	< 100
		Berkeley	5,000
		Calhoun	< 100
		Charleston	12,900
		Clarendon	400
		Colleton	< 100
		Dorchester	3,600
		Georgetown	< 100
		Kershaw	< 100
		Orangeburg	500
		Richland	< 100
		Sumter	600
		Williamsburg	< 100
South Carolina	23,000		

THIS IS AN EXPERIMENTAL MODEL!!

Temporary roofing is based on 2% in CAT 1, 6% in CAT 2 and 10% in CAT 3.

Details about this model may be obtained at https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

Hurricane Exercise Roofing Model

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Sources:
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LRL-DEBRIS